

III. CLAIM AMENDMENTS

1. (Currently Amended) A transmission cable constructed by multilayer technique, located in a cavity comprising a first dielectric surface and a second dielectric surface which is essentially parallel with the first surface, said transmission cable comprising:

a signal cable, which is essentially parallel to the first cavity surface, and

a ground cable, which is placed on said second surface, essentially in parallel with the signal cable,

and wherein said transmission cable also comprises a dielectric support element which has a dielectric surface that is essentially parallel with said first and second surfaces and is located between said first and second surfaces, so that said signal cable is provided with an electroconductive material layer disposed on the dielectric surface of the support element.

2. (Previously Presented) A transmission cable according to claim 1, wherein the support element is rectangular in shape.

3. (Previously Presented) A transmission cable according to claim 1, wherein the support element is a square.

4. (Previously Presented) A transmission cable according to claim 1, wherein the shape of the support element is a T-beam.
5. (Previously Presented) A transmission cable according to claim 1, wherein the shape of the support element is a surface defined by two curved surfaces.
6. (Previously Presented) A transmission cable according to claim 1, wherein the signal cable is an inverted microstrip cable.
7. (Cancelled)
8. (Previously Presented) The transmission cable of claim 1 wherein the electroconductive material layer is disposed along an entirety of the surface of the support element.
9. (Previously Presented) The transmission cable of claim 1 wherein a plane of contact between the first surface and the second surface is along a plane of a surface of the support element.
10. (Currently Amended) The transmission cable of claim 1 wherein a groove is disposed along each side of the support element, each groove being ~~formed~~disposed between a wall of the cavity and a side of the support element.

11. (Previously Presented) The transmission cable of claim 1 wherein the signal cable and the ground cable are separated by a medium that decreases attenuation.

12. (Previously Presented) The transmission cable of claim 11 wherein the medium is a gas or a vacuum.

13. (Currently Amended) The transmission cable of claim 1 wherein the first surface and the second surface share common side surfaces to ~~form~~define the cavity.

14. (Currently Amended) A transmission cable comprising:

a first dielectric surface substantially parallel to a second dielectric surface, which together with common, substantially perpendicular side walls, ~~forms~~defines a cavity;

a signal cable located near the first surface and essentially parallel to the first surface;

a ground cable on the second surface and essentially parallel to the signal cable; and

a support element having a dielectric surface substantially parallel to the first and second surfaces and located between the first and second surfaces, wherein the signal cable is provided with an electroconductive material layer disposed on an entirety of athe surface of the support element.

15. (Previously Presented) The transmission cable of claim 14 wherein the cavity provides a medium to decrease attenuation.

16. (Previously Presented) The transmission cable of claim 15 wherein the medium is gas or a vacuum.

17. (Currently Amended) A transmission cable comprising:

a first dielectric surface substantially parallel to a second dielectric surface, which together with common, substantially perpendicular side walls, ~~forms~~defines a cavity;

a signal cable located near the first surface and essentially parallel to the first surface;

a ground cable on the second surface and essentially parallel to the signal cable; and

a support element having a dielectric surface substantially parallel to the first and second surfaces and located between the first and second surfaces, wherein the signal cable is provided with an electroconductive material layer disposed on an entirety of the surface of the support element a groove is disposed along each side of the support element, each groove being ~~formed~~formed between a wall of the cavity and a side of the support element.